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## CLASSIFICATION C-O-N-F-I-D-E-N-T-I-A-L

## CENTRAL INTELLIGENCE AGENCY

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THIS IS UNEVALUATED INFORMATION

SOURCE

Ukrains kiy Biokhimichniy Zhurnal, Vol 26, No 2, pp 226, 227

RESOLUTION CONCERNING METHODS OF WORK WITH RADIOACTIVE ISOTOPES PASSED BY USSR COORDINATION MEETING ON BIOCHEMISTRY OF NERVOUS SYSTEM

After considering the problems pertaining to (a) the dosage of tracer atoms in investigations on the metabolism of the nervous system, (b) methods of reporting the results obtained in this type of work, and (c) extension of the use of isotopes in biochemical research, the coordination meeting made the following decisions:

- 1. The dosage of radioactive substances used in investigations of brain metabolism must correspond to the characteristics of the substance being investigated and to the physiological problems subjected to study. Although a minimum quantity of the radioactive substance must be used, the dose must be large enough to yield at least twice the number of impulses produced by the background when samples are examined. A desirable range is five to six times the number of impulses produced by the background.
- 2. To achieve greater precision ir work with radioactive phosphorus, block or end [scrittiliation?] counters must menceforth be used, which are much more sensitive than the metal counters that are being used extensively at present.
- 3. The Institute of Biophysics, Academy of Sciences USSR should be requested to develop the best designs of both block (or end) counters and flow counters suitable for biochemical research.
- $\mathfrak{h}_{+}$  . It is recommended that the dosage of trucer atoms used in work with radioactive substances be expressed in international units.
- 5. The substances being used should be checked for purity. The radio-activity corresponding to the time at which the substance is introduced must be established precisely.

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The Scientific Council of the President [Presidium?], Academy of Sciences USSR, should be requested to take steps to assure that standards for checking the radioactivity of the substances used be supplied to laboratories which work with radioactive substances.

- 6. The specific radioactivity should be expressed in the number of impulses per milligram or microgram of the fraction being investigated.
- 7. In citing values of relative specific activity, it must be explained under all circumstances, what is meant by this activity.
- 8. It is recommended that the number of isotopes used in the investigation of problems pertaining to the biochemistry of the brain be increased. Specifically, the radioactive isotopes of carbon, sulfur, sodium, potassium, and some other elements should be used.

In connection with this, a request should be made that the Scientific Council of the President, Academy of Sciences USSR, take steps to lower the cost of expensive isotopes, particularly the cost of radioactive carbon.

This resolution was passed unanimously on 19 December 1953 by the coordination meeting on the biochemistry of the nervous system, held in connection with the conference on the biochemistry of the nervous system, conducted in Kiev between 15 and 19 December 1953. The resolution was countersigned by A. V. Palladin, chairman of the coordination meeting, and Ya. V. Belik, secretary.

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